For Scope of Accreditation Under Certificate Number: AT-2021

EMC Technical Report

Prepared For: Alabama Specialty Products, Inc.

Model Covered: MS2601E
Model Variants: MS2600E, MS2650E

In Accordance with the:
Electromagnetic Compatibility Directive – 2004/108/EC

Immunity Product Standard: EN 61326-1:2013
Emissions Product Standard(s):
EN 55011:2009 w/A1:2010

ACS Report: 15-0466.C08.1A
Report Revision: A
Report Issue Date: April 11, 2016

Project Manager:

Art Sumner
EMC Technician
Advanced Compliance Solutions, Inc.

Reviewed by:

Forrest Duncan

Forrest Duncan
Operations Manager Commercial EMC
Advanced Compliance Solutions, Inc.

This report must not be used by the client to claim product certification, approval, or endorsement by ANAB, NIST, or any agency of the Federal Government.

This report contains 44 pages

REVISION HISTORY
Report Number: 15-0466.C08.1A
Manufacturer: Alabama Specialty Products, Inc.
Model: MS2601E

DATE	OLD REVISION	NEW REVISION	REASON	PAGES AFFECTED	APPROVED BY
April 11, 2016	---	A	Initial Release	All	Forrest Duncan

Project Information Sheet

ACS Project: 15-0466.C08.1A

Applicant Details

Manufacturer: Alabama Specialty Products, Inc.
Street Address: 152 Metal Samples Road
City, State/Province and Postal Code: Munford, AL 36268
Country: USA
Contact: Bala Palanisamy

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Fax:
Email: bala@alspi.com

Sample Information

Model: MS2601E
Model Variant(s): MS2600E, MS2650E
Environment of Use: Commercial
Sample Receive Date: February 24, 2016
Sample Receive Condition: Good
Test Mode Description: Idle; Displaying sensor input on remote cabinet
Unacceptable Degradation (Provided by Mfg.): Any interruption during normal operation
Highest Data Rate: Not Provided
Source: Unknown

Product Description

Current loop corrosion transmitter; measures the corrosion resistance and transmits as current loop signal.

Test Information

Test Start Date: February 24, 2016
Test End Date: March 3, 2016
Emissions Pre-scan Site: FAC
Final Emissions Site: OATS
EMI Freq. Band: 30MHz - 1GHz
RFI Site: FAC
Radiated Emissions Equipment Class: Class A
Harmonic Current EMI Class: N/A

Test Methods Applied

(Check all that apply)

- ☐ CISPR 16-2-1 Ed. 1.1 2005
- ☒ CISPR 16-2-3 1st Ed. 2003
- ☒ IEC 61000-4-2 Ed. 2.0
- ☒ IEC 61000-4-3 Ed. 3.2
- ☒ IEC 61000-4-4 Ed. 3.0
- ☒ IEC 61000-4-5 2nd Ed.
- ☒ IEC 61000-4-6 3rd Ed.
- ☒ IEC 61000-4-8 2nd Ed.
- ☐ IEC 61000-4-11 2nd Ed.

1.3 Results Summary

Product Standard or Test Method Applied	Description	Result
	Product Standards	
EN 61326-1:2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	Pass
EN 55011:2009 w/A1:2010	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Pass
EN 61000-3-2:2006 w/A1:2009 and A2:2009	Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)	N/A
EN 61000-3-3:2008	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection	N/A
	Basic Immunity Standards per EN 61326-1:2013	
IEC 61000-4-2 Ed. 2.0	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	Pass
IEC 61000-4-3 Ed. 3.2	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	Pass
IEC 61000-4-4 Ed. 3.0	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	Pass
IEC 61000-4-5 2nd Ed.	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	Pass
IEC 61000-4-6 3rd Ed.	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	Pass
IEC 61000-4-8 2nd Ed.	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	Pass
IEC 61000-4-11 2nd Ed.	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	N/A

N/A = Test Not Applicable to this EUT N/P = Not Performed. See Test Justification for Details